## WHAT IS CLAIMED IS:

1	1. An immunoglobulin molecule or fragment thereof comprising a region	
2	where amino acid residues corresponding to at least a portion of a complementarity	
3	determining regions (CDR) is replaced with a peptide selected from the group	
4	consisting of hBNP, hBNP mimetics, GLP-1, GLP-1 mimetics, GLP-2, GLP-2 mimetics	5,
5	exendin, exendin mimetics, glucagons, glucagon mimetics and PACAP-38.	
1	2. An immunoglobulin molecule or fragment thereof according to claim 1	
2	further comprising at least one flanking sequence including at least one amino acid	
3	covalently linked to at least one end of the peptide.	
4	3. An immunoglobulin molecule or fragment thereof according to claim 1	
5	wherein the immunoglobulin molecule fragment is selected from the group consisting	
6	of Fab fragment, F(ab')₂ fragment and ScFv fragment.	
1	4. An immunoglobulin molecule or fragment thereof according to claim 1	
2	wherein the immunoglobulin molecule is a full IgG molecule.	
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1	5. An immunoglobulin molecule or fragment thereof according to claim 1	
2	wherein at least a portion of two CDRs are replaced with a peptide.	
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4	6. An immunoglobulin molecule or fragment thereof according to claim 5	
5	wherein the two CDRs are both located on a heavy chain.	
1	7. An immunoglobulin molecule or fragment thereof according to claim 5	
2	wherein the two CDRs are a CDR3 of a heavy chain and a CDR2 of a heavy chain.	
1	8. An immunoglobulin molecule or fragment thereof according to claim 1	
2	wherein the immunoglobulin molecule or fragment thereof is human.	

- 9. An immunoglobulin molecule or fragment thereof according to claim 1 wherein the immunoglobulin molecule or fragment thereof is anti-tetanus toxoid.
- 1 10. Nucleic acid encoding an immunoglobulin molecule or fragment thereof 2 according to claim 1.
- 1 11. An expression vector comprising nucleic acid according to claim 10.
- 1 12. A host cell transformed with an expression vector according to claim 11.
- 1 13. A method of producing an immunoglobulin molecule or fragment thereof 2 comprising culturing a host cell according to claim 12 under conditions suitable for 3 expression of the immunoglobulin or fragment thereof.
  - 14. A composition comprising an immunoglobulin or fragment thereof according to claim 1 and a pharmaceutically acceptable carrier.

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- 15. A method of treating congestive heart failure comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a peptide selected from the group consisting of hBNP and hBNP mimetics.
- 16. A method of treating diabetes comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a peptide selected from the group consisting of, GLP-1, GLP-1 mimetics, GLP-2, GLP-2 mimetics, exendin, exendin mimetics, glucagons, glucagons mimetics and PACAP-38.

17. A method of treating obesity comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a peptide selected from the group consisting of, GLP-1, GLP-1 mimetics, GLP-2, GLP-2 mimetics, exendin, exendin mimetics, glucagons, glucagons mimetics and PACAP-38.

18. A method of preserving or improving beta-cell function comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with GLP-1.

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19. A method of inducing endothelial-dependent relaxation of preconstricted pulmonary artery rings comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with GLP-1.

20. A method comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a thiazolidinedione derivative.

21. A method as in claim 20 wherein the thiazolidinedione derivative is a peroxisome proliferator-activated receptor-y ligand.

22. A method of regulating adiponectin expression comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a thiazolidinedione derivative.